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(54) HYDROPHILIC POROUS MEMBRANE OF POLYVINYLDENE FLUORIDE AND PRODUCTION THEREOF

(57)Abstract:

PURPOSE: To obtain the titled porous membrane having excellent  $\gamma$ -ray resistance, chemical resistance, water-permeability, mechanical strength, etc., and suitable as a filter for chemicals, a membrane for artificial organ such as artificial kidney, etc., by the hydrophilic treatment of polyvinylidene fluoride.

CONSTITUTION: (A) A polyvinylidene fluoride is dissolved in a solvent and formed into a porous membrane having a thickness of preferably 50W300 $\mu$ m e.g. by wet process. An aqueous solvent is impregnated into the pores and the membrane is immersed in a strongly alkaline solution (e.g. sodium methoxide) containing an oxidizing agent (e.g. potassium permanganate). The treated membrane is immersed in (B) an aqueous solution of a compound having hydrophilic group (e.g. hydroxyethylcellulose) having a concentration of preferably 0.05W2.0W/V%, washed with water and dried to obtain the objective porous membrane.